

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A device for detecting sulfuryl fluoride, in which a gas specimen to be examined is subjected to pyrolysis, with ensuing detection of a pyrolysis product, wherein for the pyrolysis, a chemical layer of pyrophoric iron is provided in a portion of the device, and as an indication system for the pyrolysis product, a test tube, in a subsequent portion of the device, for hydrogen fluoride is present.

2. (Previously Presented) The device of claim 1, wherein the chemical layer additionally contains iron or aluminum powder.

3. (Previously Presented) A method for detecting sulfuryl fluoride, in which a gas specimen to be examined is subjected to pyrolysis, with ensuing detection of a pyrolysis product, wherein:

the pyrolysis is performed with a chemical layer of pyrophoric iron above 400° Celsius, and

the hydrogen fluoride concentration of the pyrolysis product is detected, using a colorimetric test tube, in order to detect sulfuryl fluoride.

4. (Previously Presented) The method of claim 3, wherein iron or aluminum powder is added to the chemical layer.

5. (Canceled).

6. (Currently Amended) ~~The use of a test tube~~ A method of using a test tube for detecting hydrogen fluoride as a pyrolysis product and determining sulfuryl fluoride in a gas specimen comprising:

choosing the test tube,

passing the gas specimen through the test tube,

detecting, in the test tube, hydrogen fluoride as a pyrolysis product of the gas specimen, and

determining, from the detected hydrogen fluoride, the proportion of sulfuranyl fluoride in the gas specimen.

7. (New) A device for detecting sulfuranyl fluoride in a gas specimen comprising:  
a preliminary tube containing a chemical layer of pyrophoric iron,  
a colorimetric test tube containing an indicator layer with a scale for hydrogen fluoride concentration, and

a connection means for joining the preliminary tube and the colorimetric test tube.

8. (New) A device according to claim 7 wherein the connection means comprises a hose.